```python
import pandas as pd
import numpy as np
df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
df=df.reindex[('a','b','c','d','e','f','g','h')]
print("Original DataFrame with NaN\n",df)
print("\n")
print("Dropped DataFrame\n",df.dropna())
print("\n")
```

```
---------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Input In [3], in <cell line: 4>()
      2 import numpy as np
      3 df=pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
----> 4 df=df.reindex[('a','b','c','d','e','f','g','h')]
      5 print("Original DataFrame with NaN\n",df)
      6 print("\n")

TypeError: 'method' object is not subscriptable
```

```python
df=pd.DataFrame(np.random.randn(3, 3), index=['a','c','e'], columns=['one', 'two', 'three'])
df=df.reindex(['a', 'b', 'c'])
print ("Original DataFrame:\n",df)
print("\n")
print ("Nal replaced with'0':\n")
print(df.fillna(0))
```

```
Original DataFrame:
        one       two     three
a -0.975012  0.493911 -0.569574
b      NaN       NaN       NaN
c -0.453400 -1.353737  0.094560


Nal replaced with'0':

        one       two     three
a -0.975012  0.493911 -0.569574
b  0.000000  0.000000  0.000000
c -0.453400 -1.353737  0.094560
```

```python
df=pd.DataFrame({'one':[10,20,30,40,50,2000], 'two':[1000,0,30,40,50,60]})
print("\nOriginal DataFrame:\n",df)
print("\n DataFrame with replaced values:\n")
print(df.replace({1000:10,2000:60,40:400,0:100}))
```

```
Original DataFrame:
   one   two
0   10  1000
1   20     0
2   30    30
3   40    40
4   50    50
5 2000    60

 DataFrame with replaced values:

   one  two
0   10   10
1   20  100
2   30   30
3  400  400
4   50   50
5   60   60
```

```python
df = pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
df=df.reindex(['a','b','c','d','e','f','g','h'])
print("Original DataFrame:\n",df)
print("\nNaN-with True fill:\n")
print(df['one'].isnull())
```

```
Original DataFrame:
        one       two     three
a -1.567682  0.145448  0.925353
b      NaN       NaN       NaN
c  0.820785 -1.178903  0.053328
d      NaN       NaN       NaN
```

```
        e  1.029534  1.007350  1.149076
        f  1.468017  0.127269  0.141759
        g       NaN       NaN       NaN
        h  0.589724  0.037105 -0.264997

        NaN-with True fill:

        a    False
        b     True
        c    False
        d     True
        e    False
        f    False
        g     True
        h    False
        Name: one, dtype: bool
```

```
df = pd.DataFrame(np.random.randn(5,3),index=['a','c','e','f','h'],columns=['one','two','three'])
df=df.reindex(['a','b','c','d','e','f','g','h'])
print("Original DataFrame:\n",df)
print("\nNaN- Filled with Forward values:\n")
print(df.fillna(method='pad'))
print("\nNaN- Filled with Background values:\n")
print(df.fillna(method='bfill'))
```

```
Original DataFrame:
        one       two     three
a -0.547173 -1.310615 -0.474754
b       NaN       NaN       NaN
c -1.579731 -1.053280  1.337034
d       NaN       NaN       NaN
e  0.939925  1.282000  0.410530
f -1.744501  0.183721 -0.921692
g       NaN       NaN       NaN
h -1.341303 -0.048076  0.530049

NaN- Filled with Forward values:

        one       two     three
a -0.547173 -1.310615 -0.474754
b -0.547173 -1.310615 -0.474754
c -1.579731 -1.053280  1.337034
d -1.579731 -1.053280  1.337034
e  0.939925  1.282000  0.410530
f -1.744501  0.183721 -0.921692
g -1.744501  0.183721 -0.921692
h -1.341303 -0.048076  0.530049

NaN- Filled with Background values:

        one       two     three
a -0.547173 -1.310615 -0.474754
b -1.579731 -1.053280  1.337034
c -1.579731 -1.053280  1.337034
d  0.939925  1.282000  0.410530
e  0.939925  1.282000  0.410530
f -1.744501  0.183721 -0.921692
g -1.341303 -0.048076  0.530049
h -1.341303 -0.048076  0.530049
```